Class exercise: Running CFA in Stata

Objective: Running Confirmatory Factor Analysis using Stata

Data: Taiwan Election and Democratization Study (TEDS) 2012 data (T:\ho\TEDS 2012 SEM.dta)

1. Open TEDS 2012 data in Stata
2. Examine the variables (poltalk, polnetsize, heteronet and pstrength) using sum, tab and corr.
3. Run EFA using factor
4. SEM Builder:
   a. Statistics→ SEM (Structural equation modeling) → Model Building and Estimation
   b. Build a CFA using the four variables
      i. One latent construct using eclipse, named it ENDOW
      ii. Four indicators using boxes
      iii. Connect the eclipse and boxes using path arrows (make sure the directions are correct)
      iv. Double click the boxes and specify variables
   c. Run estimation
   d. Check model fit (Estimation→ Goodness of fit)
5. Can you improve the model fit by reviewing modification indices?
6. Add another indicator. Make sure you have a theory behind that new model.